

Hostaform® S 9243 XAP²™

Acetal (POM) Copolymer

Celanese Corporation

Message:

POM copolymer, modified

Injection molding type, elastomer-containing; with higher impact strength and slightly lower hardness, rigidity and chemical resistance than the basic type HOSTAFORM C 9021

Reduced emission grade, Emission according to VDA 275 < 5 mg/kg

good weld strength.

Burning rate according to FMVSS 302 < 100 mm/min (1 mm thickness)

Preliminary Datasheet

General Information			
UL YellowCard	E38860-100974878		
Additive	Impact modifier		
Features	Impact modification		
	Low volatilization		
	Impact resistance, high		
	Good chemical resistance		
	Medium hardness		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	4.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.8	%	ISO 294-4
Flow direction	1.9	%	ISO 294-4
Water Absorption (Saturation, 23°C)	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1950	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	44.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	9.0	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	40	%	ISO 527-2/1A/50
Tensile Creep Modulus			ISO 899-1
1 hr	1700	MPa	ISO 899-1
1000 hr	950	MPa	ISO 899-1
Flexural Modulus (23°C)	1850	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-30°C	9.0	kJ/m ²	ISO 179/1eA
23°C	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C, local fracture	200	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	°C	ISO 75-2/A
Melting Temperature ¹	166	°C	ISO 11357-3
CLTE - Flow	1.2E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	3.80		IEC 60250
1 MHz	3.80		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		IEC 60250
1 MHz	6.0E-3		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.15	%	
Hopper Temperature	20.0 - 30.0	°C	
Rear Temperature	170 - 180	°C	
Middle Temperature	180 - 190	°C	
Front Temperature	190 - 200	°C	
Nozzle Temperature	190 - 200	°C	
Processing (Melt) Temp	190 - 200	°C	
Mold Temperature	60.0 - 80.0	°C	
Injection Pressure	60.0 - 120	MPa	
Injection Rate	Slow-Moderate		
Holding Pressure	60.0 - 120	MPa	
Back Pressure	0.00 - 2.00	MPa	
Injection instructions			
Manifold Temperature: 190 to 200°CZone 4 Temperature: 190 to 200°CFeed Temperature: 60 to 80°C			
NOTE			
1.	10°C/min		

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